

WATER-DISPERSIBLE RESIN COMPOSITION AND PREPARATION THEREOF

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Abstract of JP9165489

PROBLEM TO BE SOLVED: To obtain a water-dispersible resin compsn. which can yield a coating having excellent transparency, water repellency and other properties by radical polymerizing a starting mixture contg. a polyolefin and a particular monomer mixture in the presence of a polymn. initiator and neutralizing the product.

SOLUTION: A starting mixture contg. 10 to 95wt.% polyolefin (A) (e.g. polyethylene resin) and 90 to 5wt.% monomer mixture (B) comprising 2 to 75wt.% ethylenically unsatd. monomer having an acid group (e.g. acrylic acid), and 98 to 25wt.% other ethylenically unsatd. monomer(s) (e.g. acrylamide) is prepd. Subsequently, the starting mixture is radical polymerized in the presence of a polymn. initiator (e.g. benzoyl peroxide) and, if necessary, an org. solvent (e.g. methanol). The resultant resin compsn. contg. an acid group is neutralized with a neutralizer (e.g. monomethylamine) to obtain a water-dispersible resin compsn. This resin compsn. can be used to prepare an aqueous paint having excellent coating workability, dispersion stability and other properties.

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